

SEQUENCE LISTING

<110> Owen, Donald R.

<120> SHORT BIOACTIVE PEPTIDES

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<170> PatentIn Ver. 2.1

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Lys Ala Leu Lys Lys Ala Leu  
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Glu Ala Lys Ala Leu Gly  
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Glu Ala Lys Ala Leu Gly  
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Leu Ala Lys

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Leu

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Leu

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Ala Lys Lys Trp Lys Leu  
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Lys Lys Leu Ala Lys Lys Leu  
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Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln

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Variable	Mean	Standard Deviation	Minimum	Maximum
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Marital Status	0.6	0.5	0	1
Education	12.5	2.5	9	16
Income	35000	15000	10000	70000
Health	0.8	0.2	0	1
Stress	0.7	0.3	0	1
Exercise	0.4	0.5	0	1
Diet	0.6	0.5	0	1
Sleep	0.7	0.3	0	1
Work	0.8	0.2	0	1
Family	0.6	0.5	0	1
Friends	0.7	0.3	0	1
Community	0.5	0.5	0	1
Environment	0.6	0.5	0	1
Climate	0.7	0.3	0	1
Water	0.8	0.2	0	1
Air	0.7	0.3	0	1
Soil	0.6	0.5	0	1
Vegetation	0.7	0.3	0	1
Animals	0.8	0.2	0	1
Human	0.9	0.1	0	1
Technology	0.8	0.2	0	1
Industry	0.7	0.3	0	1
Transportation	0.6	0.5	0	1
Communication	0.7	0.3	0	1
Energy	0.8	0.2	0	1
Water	0.7	0.3	0	1
Air	0.6	0.5	0	1
Soil	0.7	0.3	0	1
Vegetation	0.8	0.2	0	1
Animals	0.9	0.1	0	1
Human	1.0	0.0	0	1
Technology	0.9	0.1	0	1
Industry	0.8	0.2	0	1
Transportation	0.7	0.3	0	1
Communication	0.6	0.5	0	1
Energy	0.5	0.5	0	1
Water	0.4	0.5	0	1
Air	0.3	0.5	0	1
Soil	0.2	0.5	0	1
Vegetation	0.1	0.5	0	1
Animals	0.0	0.5	0	1
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Energy	0.0	0.5	0	1
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Soil	0.0	0.5	0	1
Vegetation	0.0	0.5	0	1
Animals	0.0	0.5	0	1
Human	0.0	0.5	0	1
Technology	0.0	0.5	0	1
Industry	0.0	0.5	0	1
Transportation	0.0	0.5	0	1
Communication	0.0	0.5	0	1
Energy	0.0	0.5	0	1
Water	0.0	0.5	0	1
Air	0.0	0.5	0	1
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Animals	0.0	0.5</		

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1 5 10

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<400> 83  
Phe Ala Lys Leu Phe Ala Lys Leu Ala Lys Lys Phe Ala Leu  
1 5 10

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<210> 84
<211> 13
<212> PRT
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## Owen Application

Variable	Mean	Standard deviation	Minimum	Maximum
Age	35.2	12.5	18	65
Gender	0.45	0.50	0	1
Marital status	0.65	0.48	0	1
Education	12.5	2.5	9	16
Income	2500	1500	500	6000
Health status	0.75	0.42	0	1
Employment status	0.85	0.35	0	1
Home ownership	0.95	0.22	0	1
Vehicle ownership	0.80	0.40	0	1
Life satisfaction	4.5	1.5	1	7
Financial satisfaction	3.5	1.2	1	6
Health satisfaction	5.5	1.0	1	7
Relationship satisfaction	4.0	1.5	1	7
Community satisfaction	3.0	1.0	1	5
Overall life satisfaction	4.2	1.3	1	7

<221> MOD RES

<223> AMIDATION

Phe Lys Leu Ala Phe Lys Leu Ala Lys Lys Ala Phe Leu  
1 5 10

<211> 10

<213> SYNTHETIC

<221> MOD RES

<223> AMIDATION

Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys  
1 5 10

<211> 13

<213> SYNTHETIC

<221> MOD RES

<223> AMIDATION

Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Val Leu  
1 5 10

<211> 13

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<223> AMIDATION

Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ile Leu  
1 5 10



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 <212> PRT  
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 Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Glu Leu  
 1 5 10

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 1 5 10

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 Phe Ala Lys Leu Phe  
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1 5

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 1 5

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 Lys Trp Lys Leu Phe  
 1 5

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 Phe Gly Lys Gly Ile Gly Lys Val Gly Lys Lys Leu Leu  
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<400> 95

Phe Ala Phe Gly Lys Gly Ile Gly Lys Val Gly Lys Lys Leu Leu  
1 5 10 15

<210> 96

<211> 22

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Phe Ala Lys Ala Ile Ala Lys Ile Ala Phe Gly Lys Gly Ile Gly Lys  
1 5 10 15

Val Gly Lys Lys Leu Leu  
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<210> 97

<211> 22

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Phe Ala Lys Leu Trp Ala Lys Leu Ala Phe Gly Lys Gly Ile Gly Lys  
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Val Gly Lys Lys Leu Leu  
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Phe Ala Lys Leu Trp Ala Lys Leu Ala Lys Lys Leu  
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 Phe Ala Phe Gly Lys Gly Ile Gly Lys Ile Gly Lys Lys Gly Leu  
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<400> 102  
 Phe Ala Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Lys Ile Ile  
 HOU03:711794.2

1	5	10	15
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 Phe Ala Leu Ala Leu Lys Ala  
   1                  5

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 Lys Trp Lys Leu Ala Lys Lys Ala Leu Ala Leu Leu  
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 Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Lys Ile  
   1                  5                  10

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<400> 106  
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu  
1 5 10

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Phe Ala Leu Lys Ala Leu Lys Lys  
1 5

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<400> 108  
Lys Tyr Lys Lys Ala Leu Lys Lys Leu Ala Lys Leu Leu  
1 5 10

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<222> (17)  
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<400> 109  
Phe Lys Arg Leu Ala Lys Ile Lys Val Leu Arg Leu Ala Lys Ile Lys  
1 5 10 15

Arg

<210> 110  
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<213> SYNTHETIC

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<223> AMIDATION

<400> 110

Phe Ala Lys Leu Ala Lys Lys Ala Leu Ala Lys Leu Leu  
 1 5 10

<210> 111

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<223> AMIDATION

<220>

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<222> (13)

<223> AMIDATION

<400> 111

Lys Ala Lys Leu Ala Lys Lys Ala Leu Ala Lys Leu Leu  
 1 5 10

<210> 112

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<400> 112

Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Lys Leu  
 1 5 10 15

Ala

<210> 113

<211> 11

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<222> (11)  
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<400> 113  
Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys  
1 5 10

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<400> 114  
Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Gly Leu  
1 5 10

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<400> 115  
Met  
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<210> 116  
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<400> 116  
Val Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Val Leu  
1 5 10

<210> 117  
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<220>  
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## Owen Application

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<400> 122  
Lys Trp Lys Lys Leu Ala Lys Lys Trp  
1 5

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Lys Trp Lys Lys Leu Ala Lys Lys Trp  
1 5

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Lys Leu Trp Lys Lys Trp Ala Lys Lys Trp Leu Lys Leu Trp Lys Ala  
1 5 10 15

Trp

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<210> 125
<211> 16
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<213> SYNTHETIC
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## Owen Application

<400> 125

Lys Leu Trp Lys Lys Trp Ala Lys Lys Trp Leu Lys Leu Trp Lys Ala  
1 5 10 15

<210> 126

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<212> PRT

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Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu  
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<210> 128

<211> 12

<212> PRT

<213> SYNTHETIC

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<222> (12)

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<400> 128

Phe Ala Leu Ala Leu Lys Leu Ala Lys Lys Ala Leu  
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<220>

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Phe Ala Leu Leu Lys Leu  
1 5

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<400> 130  
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys  
1 5 10

<210> 131  
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Phe Ala Leu Lys Ala Leu Lys Lys Ala Leu  
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Phe Ala Leu Leu Lys Ala Leu Lys Lys Ala Leu  
1 5 10

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<213> SYNTHETIC

<220>

<221> MOD\_RES

<222> (4)

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<400> 133

Lys Trp Lys Lys

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Lys Trp Lys Lys Leu

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<210> 135

<211> 9

<212> PRT

<213> SYNTHETIC

<220>

<221> MOD\_RES

<222> (9)

<223> AMIDATION

<400> 135

Lys Phe Lys Lys Leu Ala Lys Lys Phe

1

5

<210> 136

<211> 9

<212> PRT

<213> SYNTHETIC

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Lys Phe Lys Lys Leu Ala Lys Lys Trp

1

5

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<400> 137  
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala  
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<400> 138  
Phe Ala Leu Leu Lys Ala Leu Leu Lys Lys Ala Leu  
1 5 10

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<400> 139  
Phe Ala Leu Ala Leu Lys Leu Ala Lys Lys Leu  
1 5 10

<210> 140  
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<400> 140  
Leu Lys Lys Leu Ala Lys Leu Ala Leu Ala Phe  
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<210> 141  
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Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu  
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Phe Ala Leu Ala Leu Lys Leu Lys Lys Leu  
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Phe Ala Leu Ala Leu Lys Ala Lys Lys Leu  
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Phe Ala Leu Ala  
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<400> 145  
Trp Ala Leu Ala Leu  
1 5

<210> 146  
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Gly Ile Gly Lys Phe Leu His Ala Ala Lys Lys Phe Ala Lys Ala Phe  
1 5 10 15

Val Ala Glu Ile Met Asn Ser  
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<210> 147  
<211> 23  
<212> PRT  
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<223> AMIDATION

<400> 147  
Phe Ala Lys Lys Phe Ala Lys Lys Phe Lys Lys Phe Ala Lys Lys Phe  
1 5 10 15

Ala Lys Phe Ala Phe Ala Phe  
20



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1 5 10 15

Ala Lys Leu Ala Lys Lys Leu  
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Val Ala Lys Ala Leu Lys Ala Leu Leu Lys Ala Leu Lys Ala Leu  
1 5 10 15

<210> 153  
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Val Ala Lys Phe Leu Ala Lys Phe Leu Lys Lys Ala Leu  
1 5 10

<210> 154  
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1 5 10 15

Ala Lys Phe Ala Phe Ala Phe  
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Leu Ala Leu

<210> 156  
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 Val Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Leu Leu  
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<221> MOD\_RES  
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<400> 158

Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys  
1 5 10 15

Lys Ala Leu Lys Lys Ala Leu  
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<210> 159  
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Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys  
1 5 10 15

Lys Ala Leu Lys Lys Ala Leu  
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Lys Leu Ala Lys Lys Ala Leu  
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Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Leu Lys Lys Leu Lys  
1 5 10 15

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Lys Leu Ala Lys Lys Ala Leu  
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1 5 10 15

Ala Lys Leu Ala Leu Ala Leu  
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<400> 163  
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu  
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Ala Lys Leu Ala Leu Ala Leu Lys Ala Leu Ala Leu Lys Ala  
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1 5 10 15

Ala Lys

<210> 165  
<211> 13  
<212> PRT  
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<223> AMIDATION

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Phe Ala Lys Leu Leu Ala Leu Ala Leu Lys Lys Ala Leu  
1 5 10

Phe Ala Lys Leu Leu Ala Leu Ala Leu Lys Lys Ala Leu  
1 5 10

## Owen Application